

# HOT 100 PRODUCTS OF 2005

EDN STAFF

It's a tough job, but somebody's gotta do it. Every year, *EDN's* editors receive thousands of product announcements, and it's their job to narrow these thousands of choices into the hundreds of newsworthy items that each year grace the pages of *EDN*. Now, at the end of the year and working with 15 product categories, our editors must even further narrow down these selections: *EDN's* hot 100 products of 2005.

Visit the Web version of this feature at [www.edn.com/051216cs](http://www.edn.com/051216cs) to find the product names linked to their original coverage in *EDN*, so you can read about why they made our list.



#### ANALOG ICs

##### Agilent Technologies

HDJD-S831-QT333  
RGB-color-sensor IC  
[www.agilent.com](http://www.agilent.com)

##### Anadigics

APS3604 active splitter  
[www.anadigics.com](http://www.anadigics.com)

##### Analog Devices

AD199x Class D amplifiers  
[www.analog.com](http://www.analog.com)

##### Intersil

ISL59830 video-driver IC  
[www.intersil.com](http://www.intersil.com)

##### Linear Technology

LT5527 RF mixer  
[www.linear.com](http://www.linear.com)

##### Semtech

SC606 white-LED driver  
[www.semtech.com](http://www.semtech.com)

##### Silicon Laboratories

Si470x FM tuner  
[www.silabs.com](http://www.silabs.com)

##### Texas Advanced Optoelectronic Solutions

TSL256x light-to-digital  
converters  
[www.taosinc.com](http://www.taosinc.com)

#### COMMUNICATIONS

##### Agere

Vision X115 Edge chip set  
[www.agere.com](http://www.agere.com)

##### Broadcom

StrataVGS III BCM56504  
Ethernet switch  
[www.broadcom.com](http://www.broadcom.com)

##### Fujitsu Microelectronics

MB87M3400 WiMax system  
on chip  
[www.fujitsu.com/us/services/edevice/microelectronics/](http://www.fujitsu.com/us/services/edevice/microelectronics/)

##### Magnolia Broadband

DiversityPlus antenna-diversity  
chip set  
[www.magnoliabroadband.com](http://www.magnoliabroadband.com)

##### Mellanox Technologies

InfiniHost III Lx Infiniband chip  
[www.mellanox.com](http://www.mellanox.com)

##### Sequoia Communications

SEQ-5400 wideband-CDMA  
and Edge transceiver  
[www.sequoiacommunications.com](http://www.sequoiacommunications.com)

##### SiNett

One Edge Ethernet/wireless  
chip set  
[www.sinett.com](http://www.sinett.com)

#### COMPONENTS

##### California Micro Devices

CM1430 and CM1431 filter  
arrays  
[www.calmicro.com](http://www.calmicro.com)

##### Interlink Electronics

Ring force-sensing resistor  
[www.interlinkelectronics.com](http://www.interlinkelectronics.com)

##### LEDtronics

B618/619 and DB618/619  
LED incandescent-bulb  
replacements  
[www.ledtronics.com](http://www.ledtronics.com)

##### Littelfuse

SL0902 SMT plasma arrester  
[www.littelfuse.com](http://www.littelfuse.com)

##### Melexis Microelectronic Integrated Systems

MLS-90316 triaxis Hall  
sensor  
[www.melexis.com](http://www.melexis.com)



#### **On Semiconductor**

ESD5Z voltage suppressors  
[www.onsemi.com](http://www.onsemi.com)

#### **Pericom Semiconductor**

S1613XP and S1614XP crystals  
[www.pericom.com](http://www.pericom.com)

#### **Stackpole Electronics**

HLD series current-sense resistors  
[www.seielect.com](http://www.seielect.com)

#### **COMPUTERS, BUSES, AND BOARDS**

##### **Artesyn Technologies**

KatanaPPB Blade computer  
[www.artesyn.com](http://www.artesyn.com)

##### **Bittware Inc**

T2-PMC PCI mezzanine card  
[www.bittware.com](http://www.bittware.com)

##### **Curtiss-Wright Controls Embedded Computing**

Topaz/PMC display controller  
[www.cwembedded.com](http://www.cwembedded.com)

##### **FieldServer Technologies**

ProtoCessor communications controller  
[www.fieldserver.com](http://www.fieldserver.com)

##### **Fingerprint Cards AB**

FPC-AM fingerprint sensor  
[www.fingerprints.com](http://www.fingerprints.com)

##### **Octagon Systems**

XE-900 single-board computer  
[www.octagonsystems.com](http://www.octagonsystems.com)

##### **Parvus Corp**

OrbiTrak GSM communications card  
[www.parvus.com](http://www.parvus.com)

##### **Pentek**

7631A digital receiver  
[www.pentek.com](http://www.pentek.com)

##### **Radicom Research Inc**

Half-Inch modem  
[www.radi.com](http://www.radi.com)

#### **RadiSys**

Endura AB915GM motherboard  
[www.radisys.com](http://www.radisys.com)

#### **Tek Microsystems**

Quixilica Neptune VXS-1  
[www.tekmicro.com](http://www.tekmicro.com)

#### **DIGITAL AND PROGRAMMABLE ICs**

##### **Actel**

Fusion programmable system chip  
[www.actel.com](http://www.actel.com)

##### **Actel**

M7 ProASIC3 (Actel with ARM7 core)  
[www.actel.com](http://www.actel.com)

##### **Cypress Semiconductor**

RPoC wireless-enabled programmable analog IC  
[www.cypress.com](http://www.cypress.com)

##### **LSI Logic**

RapidChip Xtreme2 (SERDES structured ASIC)  
[www.lsillogic.com](http://www.lsillogic.com)

##### **PLX Technology**

PEX 8508 PCI Express switch  
[www.plxtech.com](http://www.plxtech.com)

##### **QuickLogic**

PolarPro low-power FPGA  
[www.quicklogic.com](http://www.quicklogic.com)

#### **DISCRETE SEMICONDUCTORS**

##### **Bivar**

AMTC-0606 surface-mount RGB LED  
[www.bivar.com](http://www.bivar.com)

##### **STMicroelectronics**

STE59DE100 emitter-switched transistor  
[www.st.com](http://www.st.com)

##### **Vishay Intertechnology Inc**

TLMx100x SMT LEDs  
[www.vishay.com](http://www.vishay.com)

#### **EDA**

##### **Azuro Inc**

PowerCentric clock  
[www.azuro.com](http://www.azuro.com)

##### **Calypto Design Systems**

SLEC sequential equivalence checker  
[www.calypto.com](http://www.calypto.com)

##### **Gradient Design Automation**

FireBolt analysis tool  
[www.gradient-da.com](http://www.gradient-da.com)

#### **IBM**

EinsTimer statistical-timing tool  
[www.ibm.com](http://www.ibm.com)

#### **iRoc Technologies**

Tfit design tool  
[www.iroctech.com](http://www.iroctech.com)

#### **Mentor Graphics**

Questa SystemVerilog simulator  
[www.mentor.com](http://www.mentor.com)

#### **Sigma-C**

Solid+ Lithography simulator  
[www.sigma-c.com](http://www.sigma-c.com)

#### **Synplicity**

Synplify Premier FPGA physical-synthesis tool  
[www.synplicity.com](http://www.synplicity.com)

#### **EMBEDDED TOOLS**

##### **Accelerated Technology**

Nucleus BridgePoint UML suite  
[www.acceleratedtechnology.com](http://www.acceleratedtechnology.com)

##### **Altium**

Altium Designer electronic-product-design tool  
[www.altium.com](http://www.altium.com)

##### **Analog Devices**

ADSP-BF537 EZ-kit Lite development kit  
[www.analog.com](http://www.analog.com)

##### **Goal Semiconductor**

UniVersaKit development kit  
[www.goalsemi.com](http://www.goalsemi.com)

##### **Sensory Inc**

VR Stamp tool kit  
[www.sensory.com](http://www.sensory.com)

#### **MEMORY**

##### **M-Systems**

mDOC hybrid NAND  
[www.m-systems.com](http://www.m-systems.com)

##### **Samsung**

OneNAND hybrid NAND  
[www.samsung.com](http://www.samsung.com)

##### **Spansion**

Gbit MirrorBit GL NOR  
[www.spansion.com](http://www.spansion.com)

#### **MULTIMEDIA**

##### **LSI Logic**

DiMeNtion-3 DVD-recorder chip set  
[www.lsillogic.com](http://www.lsillogic.com)



### **Silicon Image**

SiL 8100 video processor  
[www.siliconimage.com](http://www.siliconimage.com)

### **Texas Instruments**

TMS320DM64x digital-media processor  
[www.ti.com](http://www.ti.com)

### **POWER ICs**

#### **iWatt**

iW2202 digital single-stage  
power-factor-correction controller  
[www.iwatt.com](http://www.iwatt.com)

#### **Power Integrations**

DPA-switch family of high-voltage,  
dc/dc-converter ICs  
[www.powerint.com](http://www.powerint.com)

#### **Quicksilver Controls**

Silverdust IGB servo controller  
[www.quicksilvercontrols.com](http://www.quicksilvercontrols.com)

#### **Silicon Labs**

Si8250/1/2 digital-power-  
development tool  
[www.silabs.com](http://www.silabs.com)

#### **Texas Instruments**

T2 series of point-of-load dc/dc-  
converter modules  
[www.ti.com](http://www.ti.com)

#### **Zilker Labs**

ZL2005 digital-power IC  
[www.zilkerlabs.com](http://www.zilkerlabs.com)

### **POWER SOURCES**

#### **Artesyn**

DPL20C point-of-load converter  
[www.artesyn.com](http://www.artesyn.com)

#### **Astec Power**

DTX digital dc converter  
[www.astecpower.com](http://www.astecpower.com)

#### **Cherokee International**

Polaris 2 half-brick dc/dc-converter  
family  
[www.cherokeepwr.com](http://www.cherokeepwr.com)

#### **EnOcean**

STM100 network-transmitter node  
[www.enocean.com](http://www.enocean.com)

#### **Foster Transformer**

Class 2 plug-ins  
[www.foster-transformer.com](http://www.foster-transformer.com)

#### **PowerOne**

No-bus point-of-load converters  
[www.power-one.com](http://www.power-one.com)

#### **XP Power**

flexPower family of configurable  
power supplies  
[www.xppower.com](http://www.xppower.com)

### **PROCESSORS**

#### **AMD**

Opteron dual-core, 64-bit processor  
[www.amd.com](http://www.amd.com)

#### **Analog Devices**

ADSP-BF53x Blackfin processor  
[www.analog.com/blackfin](http://www.analog.com/blackfin)

#### **Cavium**

Octeon Exp multicore processor  
[www.caviumnetworks.com](http://www.caviumnetworks.com)

#### **Cypress**

enCoRe II CY7C63xxx microcontrollers  
[www.cypress.com](http://www.cypress.com)

#### **Freescale**

MPC8360E PowerQuicc II  
Pro processors  
[www.freescale.com](http://www.freescale.com)

#### **Intel**

Dual-core Pentium processor  
[www.intel.com](http://www.intel.com)

#### **Microchip**

PIC16F506/12F510 devices  
[www.microchip.com](http://www.microchip.com)

#### **Philips Electronics**

LPC210x microcontrollers  
[www.semiconductors.philips.com](http://www.semiconductors.philips.com)

#### **Raza Microelectronics**

XLR processor  
[www.razamicroelectronics.com](http://www.razamicroelectronics.com)

#### **Texas Instruments**

TMS320C672x floating-point DSPs  
[www.ti.com/c672xpr](http://www.ti.com/c672xpr)

#### **Xilinx**

MicroBlaze V4 processor core  
[www.xilinx.com](http://www.xilinx.com)

### **SOFTWARE**

#### **Agilent Technologies**

VEE Pro 7.5  
[www.agilent.com](http://www.agilent.com)

#### **Green Hills Software**

Integrity PC RTOS  
[www.ghs.com](http://www.ghs.com)

#### **The Mathworks**

Communications Blockset 3  
Simulink extension  
[www.mathworks.com](http://www.mathworks.com)

#### **Microsoft**

Windows Mobile 5.0 operating system  
[www.microsoft.com](http://www.microsoft.com)

#### **National Instruments**

LabView embedded-development  
module  
[www.ni.com](http://www.ni.com)

#### **Wolfram Research Inc**

Mathematica CalcCenter 3 math  
software  
[www.wolfram.com](http://www.wolfram.com)

### **TEST AND MEASUREMENT**

#### **Aeroflex Inc**

AIME/AT test system  
[www.aeroflex.com](http://www.aeroflex.com)

#### **Agilent Technologies**

E2980A protocol analyzer  
[www.agilent.com](http://www.agilent.com)

#### **Keithley Instruments Inc**

Model 2602 SourceMeter instrument  
[www.keithley.com](http://www.keithley.com)

#### **LeCroy Corp**

UWB Tracer MPI protocol analyzer  
[www.lecroy.com](http://www.lecroy.com)

#### **National Instruments**

PXI-5922 digitizer  
[www.ni.com](http://www.ni.com)

#### **Stanford Research Systems**

CG635 clock generator  
[www.thinksrs.com](http://www.thinksrs.com)

#### **Tektronix**

TDS-6154C digital-storage oscilloscope  
[www.tektronix.com](http://www.tektronix.com)

#### **Yokogawa Corp of America**

DL9000 digital-storage oscilloscope  
[www.yokogawa.com](http://www.yokogawa.com)